

Primary Single-Turn (LB1) Series

The series of LB1 Miniature current transformers are designed specifically for integration into products which require exceptionally accurate primary signal transfor-mation while exposed to harsh environmental operating con-ditions. An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

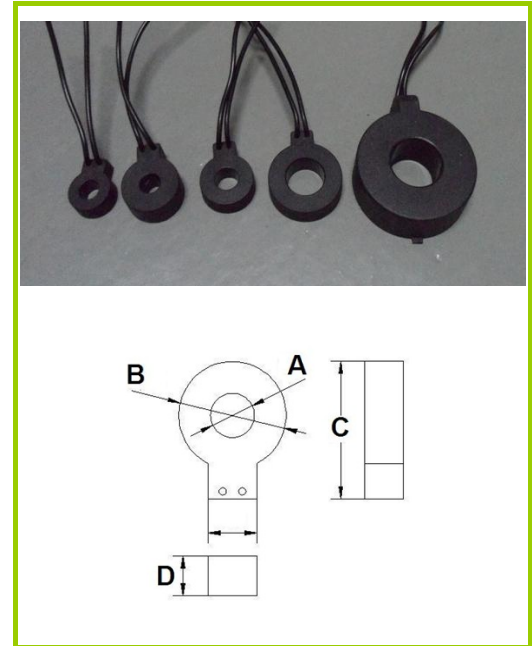
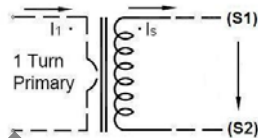
◆ **Features**

- Primary Single-Turn
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ **Applications**

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Instrumentation, Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power, and energy monitoring device.
- Relay protection device.

◆ **Circuit connection diagram**



◆ **Technique Index**

Electrical Parameter	
Frequency	50-400Hz
Rated Input	0-250A
Measuring range	5%In-120%In
Rated Output	0-100mA
Ratio	± 0.1%
Phase angle	± 5 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/1000MΩ min

Mechanical Parameter	
Case	PBT /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	-----
Operating Temp	-25℃ ~ +75℃
Operating Humidity	≤85%
Output Connection	Leads

◆ **Type Selection**

Mfg P/N	Rated Input (A)	Ratio	Burden (Ω)	Accuracy	Dimensions (mm/inch)			
					A	B	C	D
LB1-1071	10A	1000: 1 2000: 1 2500: 1 3000: 1	≤50	0.1、0.2	6.99 .275	17.23 .678	22.0 .866	8.10 .318
LB1-1091	20A		≤100	0.1、0.2	9.0 .35	22.0 .87	27.8 1.09	8.4 .33
LB1-1151	50A		≤100	0.1、0.2	15.0 .59	30.1 1.18	36.0 1.41	9.2 .36
LB1-1072	50A		≤200	0.1、0.2	7.11 .280	23.20 .913	28.95 1.397	11.05 .435
LB1-1092	75A		≤200	0.1、0.2	9.14 .354	26.0 1.02	31.8 1.25	17.0 .670
LB1-1131	200A		≤200	0.1、0.2	13.08 .515	37.83 1.489	43.18 1.70	14.0 .551
LB1-1191	250A		≤200	0.1、0.2	19.0 .748	47.6 1.874	60.0 2.360	17.6 .692

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